

From: [Khoury, Ghassan](#)
To: [Crumbling, Deana](#)
Cc: [Rauscher, Jon](#); [Tzhone, Stephen](#)
Subject: RE: Arkwood DU conc calculations
Date: Friday, January 08, 2016 3:23:34 PM
Attachments: [image001.png](#)
[image002.png](#)

Thank you Deana, Do you have a reference for the calculator you used?

From: Crumbling, Deana
Sent: Friday, January 08, 2016 2:38 PM
To: Khoury, Ghassan
Cc: Rauscher, Jon; Tzhone, Stephen
Subject: Arkwood DU conc calculations

Ghassan,

I finished calculations for the Arkwood data. The corrected values for Table 3 are below:

corrected Table 3.					
DU	Cheb UCL	SUs sampled out of total	Max TEQ for sampled SUs	Mean TEQ for DU	DU Conc to Use
1	1853	3 of 5	1105	841	1853
2	542	8 of 44	610	248	542
3	3043	2 of 2	1427	946	3043
4	3015	2 of 2	1502	1052	3015
5	1834 (t-UCL)	1 of 1	1777	1673	1834
6	4284	3 of 4	3121	2149	4284
7	NC	1 of 1	5506	NC	5506

For your convenience, I'm also including a screen shot of Table 3 from the Dec2015 report draft from Cardno.

Table 3. Summary of Decision Unit Concentrations Used in Comparison with Soil Screening Levels for TCDD.

Decision Unit	Chebyshev 95% Upper Confidence Limit for Unadjusted TEQ Soil Concentration (pg/g)	Maximum TEQ Soil Concentration (pg/g)	Mean TEQ Soil Concentration (pg/g)	Decision Unit Concentration (pg/g)*
1	1853	1105	841	841
2	542	610	248	542
3	NC	1427	1095	1095
4	NC	1502	1502	1502
5	1914	1777	1777	1777
6	4284	3121	2149	2149
7	NC	5506	5506	5506



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I will start working on the calculations to combine certain DUs into a large area..
--Deana